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VIA ELECTRONIC FILING

Jocelyn G. Boyd
Chief Clerk & Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: South Carolina Energy Freedom Act (House Bill 3659) Proceeding Related to S.C. Code Ann.
Section 58-37-40 and Integrated Resource Plans for Dominion Energy South Carolina, Inc.
Docket 2019-226-E

Dear Ms. Boyd:

On behalf of Dominion Energy South Carolina, Inc. ("DESC"), and in compliance with the Public Service Commission of South Carolina's Order No. 2020-832, attached for filing in this docket please find DESC's Modified 2020 IRP. A copy of the Modified 2020 IRP may also be found at [DominionEnergySC.com/IRP](https://www.dominionenergysc.com/IRP).

Order No. 2020-832 required DESC to submit a modified version of its 2020 IRP, which was originally filed on February 28, 2020, as a stand-alone document. The requirements for the modified version of the 2020 IRP included, but were not limited to, changing multiple assumptions, forecasts and sensitivities used in the modeling of resource plans; modeling six additional resource plans proposed by the South Carolina Solar Business Alliance; testing the resource plans results using a broad variety of evaluation metrics; and providing operational reports on DESC's generation system.

This Modified 2020 IRP is filed in satisfaction of these requirements. Appendix B to this Modified 2020 IRP maps specific sections of it to the requirements of Order No. 2020-832.

Having reviewed the results of this additional modeling, and having considered the needs of its customers and the operating conditions of its system, DESC has determined that the most reasonable and prudent plan to pursue at this time is Resource Plan 8 ("RP8"). Resource Plan 8 assumes that the Wateree and Williams coal-fired Stations are retired in 2028, the Cope coal/gas-fired Station is converted to gas-fired only status in 2030, and between 1,700 and 2,000 MW of solar resources and between 700 and 900 MW of battery storage are added to the system along with gas resources to maintain reliability.

In the originally-filed 2020 IRP, DESC indicated that Resource Plan 2 ("RP2") was the preferred resource plan pending future reassessment. RP2 did not involve the early retirement of any coal units and new



generating resources were added to the system only very late in the planning period. Modeling showed RP2 to be least-cost resource plan under current conditions. But the original IRP also identified RP8 as the preferred plan in an environment that included carbon emissions prices or limitations.

That has changed. The higher natural gas price forecasts used in this modeling, the inclusion of CO₂ costs in the expected case, and the increase in the forecasted capital costs of large frame Internal Combustion Turbines have reduced the attractiveness of RP2. RP8 has emerged as the most reasonable and prudent plan under current assumptions. Why that is the case is explained in detail in the filing.

In accordance with Order No. 2020-832, DESC will provide parties without request the Excel workbooks that show the data, inputs and results for each resource plan modeled. The South Carolina Office of Regulatory Staff, and all parties which have signed a confidentiality agreement, are being given access to this information through secure web folders similar to those used successfully for the transmission of discovery responses. This approach will allow full access to the Excel workbooks in their native format.

Please contact me if you have any concerns or questions concerning this filing.

Respectfully submitted,

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cc: All counsel of record